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## CURRICULUM VITAE



Name Helen E. Savaki

Nationality Greek

Present Academic status Professor Emerita, Medical School University of Crete (<http://www.english.med.uoc.gr/?q=the-school/emeritus-professors>), Collaborating Researcher, Institute of Applied and Computational Mathematics, Foundation for Research and Technology Hellas, (<http://www.iacm.forth.gr>) Member of the Inter-Departmental Graduate Program in “Brain and Mind Sciences” (<http://brain-mind.med.uoc.gr/?q=node/9>)

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## **EDUCATION**

- 1968 – 1974 University of Athens, Greece, Undergraduate, School of Medicine.
- 1972 - 1973 Athens Pierce College, Athens, Greece.  
Two 6-month courses in experimental psychology.
- 1974 – 1976 University of Athens, Greece  
Graduate, Department of Biochemistry, School of Medicine.
- 1976 - 1978 Foundation for Advanced Education in the Sciences,  
National Institutes of Mental Health, Bethesda, Md., USA.  
Four 6-month courses in biochemistry, neurochemistry, psychiatry,  
psychology.
- 1977 - 1978 The George Washington University, Washington DC., USA.  
Two 6-month courses in biochemistry.  
One 6-month course in computer application.

## **DEGREES AND PROFESSIONAL QUALIFICATIONS**

- 1975 Medical Degree, University of Athens, Greece.
- 1976 Licensed medical practitioner (Greece).
- 1976 Doctorate degree in basic medical sciences, University of Athens, Greece.
- 1977 Licensed by the United States Nuclear Regulatory Commission as  
"authorized user" of radiation sources.

## **MEMBERSHIPS**

- Society for Neuroscience, U.S.A (SFN).
- The New York Academy of Sciences.
- Hellenic Society for Neuroscience.
- European Neuroscience Association (ENA).
- International Brain Research Organization (IBRO).
- International Society of Cerebral Blood Flow and Metabolism.
- International Neuropsychological Symposium (INS).

## **PROFESSIONAL HISTORY**

- 1972 - 1976 Research Assistant, Dept of Biological Chemistry, Athens University, School of Medicine, Greece.

- July - Sept. 1975 Research Fellow, Department of Psychobiology, Medical School of Sao Paulo, Brazil.
- Jan. - April 1976 Research Fellow, Department of Anaesthesiology, College of Physicians and Surgeons, Columbia University, New York City, USA.
- 1976 - 1979 Postdoctoral Research Fellow, Laboratory of Cerebral Metabolism, National Institutes of Mental Health, Bethesda, Maryland, USA.
- 1979 - 1980 Postdoctoral Research Fellow, Wellcome Surgical Institute, University of Glasgow, United Kingdom.
- 1980 - 1984 Postdoctoral Research Fellow, Group NB-INSERM u.114, College de France.
- 1984 - 1990 Associate Professor (tenure) of Physiology, Medical School, University of Crete, Greece.
- 1987 – 1988,  
1990 – 1991  
2001-2002 Director of the Dept. of Basic Sciences, Medical School, University of Crete.
- 1990 – present Full Professor (tenure) of Physiology, Medical School, University of Crete, Greece. Teaching undergraduate medical students courses on Physiology and undergraduate as well as graduate students a course on Basic Neuroscience.
- 1994 – present Joint Appointment, Computational Neuroscience group of the Institute of Applied and Computational Mathematics of the Foundation for Research and Technology Hellas (FORTH-IACM).
- 2004- 2008,  
2016-2018 Director of the Inter-Departmental Graduate Program in “Brain and Mind Sciences”. Website: <http://brain-mind.med.uoc.gr>
- 2019 Professor Emerita, Medical School, University of Crete

### **AWARDS-GRANTS**

- 1968 - 1974 Six years Undergraduate Fellowship from the Papadakis Foundation, Greece, to study medicine.
- 1975 Postgraduate Research Fellowship from the Medical School of Sao Paulo, Brazil, to work for two months at the Dept. of Psychobiology.
- 1976 Postgraduate Research Fellowship from the College of Physicians and Surgeons, Columbia University, NY, USA.

- 1976 - 1979 Three years Postdoctoral Research Fellowship from the National Institutes of Mental Health, Bethesda, MD, USA, to work at the Laboratory of Cerebral Metabolism.
- 1979 - 1980 One year Postdoctoral Research Fellowship from the Wellcome Trust, to work at the Wellcome Surgical Institute, Glasgow University, UK.
- 1980 - 1981 One year Postdoctoral Research Fellowship from the Institute National de la Sante et de la Recherche Medicale, to work at the College de France: Groupe NB-INSERM u-114.
- 1981 - 1982 Two 6-months Postdoctoral Research Fellowships from the European Science Foundation and the Fondation Fyssen, to continue working at the College de France.
- 1982 - 1983 One year Postdoctoral Research Fellowship from the Ministere Francais des Relations Exterieures to continue working at the College de France.
- 1983 - 1985 "Cadre Position I" at Pharmuka-Labs., functioning as Research Consultant, while continue working at College de France: Groupe NB-INSERM U114.
- Oct. - Jan. 1987 Appointment to the Faculty of the Johns Hopkins University as "Visiting Scientist" in Neuroscience with Fulbright travelling scholarship.
- 1987 - 1988 Principal Investigator, Grant 8745012/004 from the Greek Ministry of National Education.
- 1988 - 1989 Six months sabbatical from the University of Crete:  
Three months: Collaboration with Prof. M.-J. Besson at the Institut des Neurosciences, Universite Pierre et Marie Curie (Paris VI).  
Three months: Appointment to the National Institutes of Mental Health as "Visiting Scientist" to work with Dr. L. Sokoloff at the Laboratory of Cerebral Metabolism, NIH, MD, USA.
- 1988 - 1989 Principal Investigator, Grant 86EΔ856 from the Greek General Secretariat of Research and Technology (GSRT).
- 1988 - 1989 Principal Coordinator, ERASMUS Grant ICP-88-0008-G from the European Community.
- June - Aug. 1989 Appointment to the National Institutes of Mental Health as "Visiting Scientist" to work with Dr. L. Sokoloff at the Laboratory of Cerebral Metabolism, NIH, MD, USA.
- 1989 - 1990 Principal Investigator, Grant AD 2426 15/2/89 from the GSRT and the Embassy of France.
- 1989 - 1991 Co-investigator, Grant 87 EΔ 34 from the GSRT.

- 1990 - 1992 Principal investigator, Grant EO31, Greek Ministry of Health.
- 1990 - 1991 Principal Coordinator, ERASMUS Grant ICP-90-G-0068 from the European Community.
- 1991 - 1993 Principal Investigator, Grant 89 EΔ401 from the GSRT.
- 1991 - 1993 Principal Investigator, Grant from the European Community concerning the “Development of a neurophysiological unit in the Medical School of the University of Crete”.
- 1993 - 1995 Principal Investigator, Grant 91EÄ863 from the GSRT.
- 1993 - 1996 Principal Investigator, Grant from the European Community: ERB4050PL 920809 Human Capital and Mobility (Fellowship Network, cooperation with France and Italy)
- 1993 - 1996 Principal Investigator, Grant from the European Community: ERBCHRXCT 930266 Human Capital and Mobility (Grant Network, cooperation with France and Italy) 77 500 ECUs
- 1996 - 1998 Principal Investigator, Grant 95 EΔ24 from the GSRT \$ 20 000
- 1998 - 1999 Expert Contractor for BIOMED-2 Programme Monitoring (European Commission- Directorate General XII)
- 1999 - 2000 Expert Contractor for Evaluation of Projects Fifth Framework (European Commission QLEV-CT99-01137)
- 1998-2000 Co-Investigator, Grant EPEAEK for the Crete Graduate Programme “Neuroscience”, Greek Ministry of Education \$ 750 000.
- 1998 - 2000 Co-Investigator, BIOTECH (European Commission- BIO4-CT98-0546 \$ 200 000
- 1998 - 2001 Principal-Investigator, Human Frontier Science Program (RG0039/1998-B) \$ 132 000
- 1998 - 2001 Coordinator, Grant 97EL-35 from the GSRT \$ 80 000
- 2000 - 2001 Expert Contractor for Monitoring of the Quality of Life Programme (European Commission- Directorate General XII)
- 2002 - 2005 Principal-Investigator, Fifth Framework Quality of Life Programme (European Commission- Directorate General XII, QLRT-2001-00746) 185 000 €
- 2002 - 2005 Principal Investigator, Grant 01EΔ111 from the GSRT 122000 €
- 2006 - 2009 Co-Investigator, Grant 03EΔ803 from the GSRT 117000 €

2006 - 2009	Coordinator, Sixth Framework IST-027574 648000 €
2010 - present	Expert Contractor for the Seventh Research Framework Programme.
2010 – 2013	Appointed by the European Research Council as referee in peer review evaluations.
2014-2016	Principal Investigator, Grant «ΑΡΙΣΤΕΙΑ-II» from the GSRT 200000 €
2019-2022	Principal Investigator, Grant «ΕΛ.ΙΑ.Ε.Κ. for the Support of Faculty Members and Researchers” from the GSRT 94455 €

## **PUBLICATIONS**

### A. Articles in peer-reviewed journals

1. **Savaki HE**, Kavroulakis E, Papadaki E, Maris T, Simos P. Action Observation Responses Are Influenced by Movement Kinematics and Target Identity. *Cerebral Cortex*, 32:490–503, 2022.
2. **Savaki HE**, Raos V. Action perception and motor imagery: Mental practice of action. *Progr Neurobiol*, 175:107-125, 2019.
3. **Savaki H**. A specific immunity brain aging gene with a future. *EBioMedicine*, 36:9, 2018.
4. Simos P, Kavroulakis E, Maris T, Papadaki E, Boursianis T, Kalaitzakis G, **Savaki HE**. Neural foundations of overt and covert actions. *NeuroImage*, 152:482-496, 2017.
5. Raos V, **Savaki HE**. Perception of actions performed by external agents presupposes knowledge about the relationship between action and effect. *NeuroImage*, 132:261-73, 2016.
6. Raos V, **Savaki HE**. The Role of the Prefrontal Cortex in Action Perception. *Cereb Cortex*, 1–14, 2016.
7. **Savaki HE**, Gregoriou GG, Bakola S Moschovakis AK. Topography of visuomotor parameters in the frontal and premotor eye fields *Cereb Cortex*, 25:3095-3106, 2015.
8. Kilintari M, Raos V, **Savaki HE**. Involvement of the superior temporal cortex in action execution and action observation. *J. Neurosci*. 34:8999-9011, 2014.
9. **Savaki HE**, Gregoriou GG, Bakola S Moschovakis AK. Topography of visuomotor parameters in the frontal and premotor eye fields *Cereb Cortex*, 2014 May 20. pii: bhu106.
10. Raos V, Kilintari M, **Savaki HE**. Viewing a forelimb induces widespread cortical activations. *Neuroimage*.89:122-142, 2014.
11. Kilintari M, Raos V, **Savaki HE**. Grasping in the dark activates early visual cortices. *Cereb Cortex* 21:949-63, 2011.
12. Hourdakis E, **Savaki H.E**, Trahanias P Computational modeling of cortical pathways involved in action execution and action observation. *Neurocomputing* 74:1135-1155, 2011

13. **Savaki HE**. How do we understand the actions of others? By mental simulation, NOT mirroring. *Cognitive Critique*, 2: 99-140, 2010.
14. Stamos AV, **Savaki HE**, Raos V. The spinal substrate of the suppression of action during action observation. *J. Neurosci.* 30:11605-11, 2010.
15. **Savaki HE**, Gregoriou GG, Bakola S, Raos V, Moschovakis AK. The place code of saccade metrics in the lateral bank of the intraparietal sulcus. *J. Neurosci.*30:1118-1127, 2010.
16. Evangeliou MN, Raos V, Galletti C, and **Savaki HE**. Functional imaging of the parietal cortex during action execution and observation. *Cereb Cortex* 19: 624-639, 2009.
17. Raos V, Evangeliou MN, and **Savaki HE**. Mental simulation of action in the service of action perception. *J Neurosci* 27: 12675-12683, 2007.
18. Bakola S, Gregoriou GG, Moschovakis AK, Raos V, and **Savaki HE**. Saccade-related information in the superior temporal motion complex: quantitative functional mapping in the monkey. *J Neurosci* 27: 2224-2229, 2007.
19. Bakola S, Gregoriou GG, Moschovakis AK, and **Savaki HE**. Functional imaging of the intraparietal cortex during saccades to visual and memorized targets. *Neuroimage* 31: 1637-1649, 2006.
20. Gregoriou GG, Luppino G, Matelli M, and **Savaki HE**. Frontal cortical areas of the monkey brain engaged in reaching behavior: a <sup>14</sup>C-deoxyglucose imaging study. *Neuroimage* 27: 442-464, 2005.
21. Raos V, Evangeliou MN, and **Savaki HE**. Observation of action: grasping with the mind's hand. *Neuroimage* 23: 193-201, 2004.
22. Moschovakis AK, Gregoriou GG, Ugolini G, Doldan M, Graf W, Guldin W, Hadjidimitrakis K, and **Savaki HE**. Oculomotor areas of the primate frontal lobes: a transneuronal transfer of rabies virus and [14C]-2-deoxyglucose functional imaging study. *J Neurosci* 24: 5726-5740, 2004.
23. Gregoriou GG, and **Savaki HE**. When vision guides movement: a functional imaging study of the monkey brain. *Neuroimage* 19: 959-967, 2003.
24. Moschovakis AK, Gregoriou GG, and **Savaki HE**. Functional imaging of the primate superior colliculus during saccades to visual targets. *Nat Neurosci* 4: 1026-1031, 2001.
25. Gregoriou GG, and **Savaki HE**. The intraparietal cortex: subregions involved in fixation, saccades, and in the visual and somatosensory guidance of reaching. *J Cereb Blood Flow Metab* 21: 671-682, 2001.
26. **Savaki HE**. Sokoloff's 14C-deoxyglucose method. *Brain Res Bull* 50: 405-407, 1999.
27. **Savaki HE**, and Dalezios Y. 14C-deoxyglucose mapping of the monkey brain during reaching to visual targets. *Prog Neurobiol* 58: 473-540, 1999.

28. Dalezios Y, Gregoriou GG, and **Savaki HE**. Metabolic activity patterns in the monkey visual cortex as revealed by spectral analysis. *J Cereb Blood Flow Metab* 19: 401-416, 1999.
29. **Savaki HE**, Raos VC, and Dalezios Y. Spatial cortical patterns of metabolic activity in monkeys performing a visually guided reaching task with one forelimb. *Neuroscience* 76: 1007-1034, 1997.
30. **Savaki HE**, Kennedy C, Sokoloff L, and Mishkin M. Visually guided reaching with the forelimb contralateral to a "blind" hemisphere in the monkey: contribution of the cerebellum. *Neuroscience* 75: 143-159, 1996.
31. Dalezios Y, Raos VC, and **Savaki HE**. Metabolic activity pattern in the motor and somatosensory cortex of monkeys performing a visually guided reaching task with one forelimb. *Neuroscience* 72: 325-333, 1996.
32. Raos VC, Dermon CR, and **Savaki HE**. Functional anatomy of the thalamic centrolateral nucleus as revealed with the [<sup>14</sup>C]deoxyglucose method following electrical stimulation and electrolytic lesion. *Neuroscience* 68: 299-313, 1995.
33. Raos VC, and **Savaki HE**. Functional anatomy of the thalamic reticular nucleus as revealed with the [14C]deoxyglucose method following electrical stimulation and electrolytic lesion. *Neuroscience* 68: 287-297, 1995.
34. Tzagournissakis M, Dermon CR, and **Savaki HE**. Functional metabolic mapping of the rat brain during unilateral electrical stimulation of the subthalamic nucleus. *J Cereb Blood Flow Metab* 14: 132-144, 1994.
35. **Savaki HE**, Kennedy C, Sokoloff L, and Mishkin M. Visually guided reaching with the forelimb contralateral to a "blind" hemisphere: a metabolic mapping study in monkeys. *J Neurosci* 13: 2772-2789, 1993.
36. **Savaki HE**, Raos VC, and Dermon CR. Bilateral cerebral metabolic effects of pharmacological manipulation of the substantia nigra in the rat: unilateral intranigral application of the inhibitory GABAA receptor agonist muscimol. *Neuroscience* 50: 781-794, 1992.
37. Dermon CR, Tzagournissakis M, and **Savaki HE**. Bilateral cerebral metabolic effects of pharmacological manipulation of the substantia nigra in the rat: unilateral intranigral application of the putative excitatory neurotransmitter substance P. *Neuroscience* 50: 795-809, 1992.
38. Dermon CR, Pizarro P, Georgopoulos P, and **Savaki HE**. Bilateral alterations in local cerebral glucose utilization following intranigral application of the GABAergic agonist muscimol. *J Neurosci* 10: 2861-2878, 1990.
39. **Savaki HE**, Pizarro P, Dermon C, and Arsenis S. Deoxyglucose analysis of the specific topographic functional interrelations between substantia nigra and globus pallidus. *Brain Res Bull* 21: 855-863, 1988.



40. Girault JA, Spampinato U, **Savaki HE**, Glowinski J, and Besson MJ. In vivo release of [<sup>3</sup>H]gamma-aminobutyric acid in the rat neostriatum--I. Characterization and topographical heterogeneity of the effects of dopaminergic and cholinergic agents. *Neuroscience* 19: 1101-1108, 1986.
41. Spampinato U, Girault JA, Danguir J, **Savaki HE**, Glowinski J, and Besson MJ. Apomorphine and haloperidol effects on striatal 3H-dopamine release in anesthetized, awake restrained and freely moving rats. *Brain Res Bull* 16: 161-166, 1986.
42. **Savaki HE**, Girault JA, Spampinato U, Truong NA, Glowinski J, and Besson MJ. Release of newly synthesized 3H-dopamine in the striatum: an adaptation of the push-pull cannula method to awake restrained and anesthetized rats. *Brain Res Bull* 16: 149-154, 1986.
43. Girault JA, **Savaki HE**, Desban M, Glowinski J, and Besson MJ. [Effect of lesions of the ventromedial nucleus of the thalamus on cerebral metabolism: experimental study in the rat using the 14C-deoxyglucose method]. *Rev Neurol (Paris)* 142: 456-464, 1986.
44. Benavides J, Malgouris C, Daniel M, **Savaki H**, Uzan A, Gueremy C, and Le Fur G. [Biochemical characterization and study by quantitative autoradiography of the binding sites of indalpine, a 5-HT uptake inhibitor, in cat brain]. *Encephale* 11: 247-254, 1985.
45. **Savaki H**, Malgouris C, Benavides J, Laplace C, Uzan A, Gueremy C, and Le Fur G. Quantitative autoradiography of [3H]indalpine binding sites in the rat brain: II. Regional distribution. *J Neurochem* 45: 521-526, 1985.
46. Benavides J, **Savaki HE**, Malgouris C, Laplace C, Margelidon C, Daniel M, Courteix J, Uzan A, Gueremy C, and Le Fur G. Quantitative autoradiography of [3H]indalpine binding sites in the rat brain: I. Pharmacological characterization. *J Neurochem* 45: 514-520, 1985.
47. **Savaki HE**, Girault JA, Desban M, Glowinski J, and Besson MJ. Local cerebral metabolic effects induced by nigral stimulation following ventromedial thalamic lesions. II: Sensory motor, reticular and limbic systems. *Brain Res Bull* 14: 287-296, 1985.
48. Girault JA, **Savaki HE**, Desban M, Glowinski J, and Besson MJ. Bilateral cerebral metabolic alterations following lesion of the ventromedial thalamic nucleus: mapping by the 14C-deoxyglucose method in conscious rats. *J Comp Neurol* 231: 137-149, 1985.
49. Benavides J, **Savaki HE**, Malgouris C, Laplace C, Daniel M, Begassat F, Desban M, Uzan A, Dubroeuq MC, Renault C, and et al. Autoradiographic localization of peripheral benzodiazepine binding sites in the cat brain with [3H]PK 11195. *Brain Res Bull* 13: 69-77, 1984.
50. **Savaki HE**, Girault JA, Desban M, Glowinski J, and Besson MJ. Adaptive reaction of nigral neurons following lesion of their ventromedial-thalamic projection field. *Brain Res* 302: 190-195, 1984.

51. **Savaki HE**, Girault JA, Desban M, Glowinski J, and Besson MJ. Local cerebral metabolic effects induced by nigral stimulation following ventromedial thalamic lesions. I: Basal ganglia and related motor structures. *Brain Res Bull* 12: 609-616, 1984.
52. **Savaki HE**, Graham DI, Grome JJ, and McCulloch J. Functional consequences of unilateral lesion of the locus coeruleus: a quantitative [<sup>14</sup>C]2-deoxyglucose investigation. *Brain Res* 292: 239-249, 1984.
53. Kadekaro M, **Savaki HE**, Kutyna FA, Davidsen L, and Sokoloff L. Metabolic mapping in the sympathetic ganglia and brain of the spontaneously hypertensive rat. *J Cereb Blood Flow Metab* 3: 460-467, 1983.
54. **Savaki HE**, Graham DI, and McCulloch J. Differential effects of locus coeruleus lesions upon metabolic activity in CNS nuclei involved in cardiovascular regulation. *Brain Res* 271: 109-114, 1983.
55. **Savaki HE**, Desban M, Glowinski J, and Besson MJ. Local cerebral glucose consumption in the rat. II. Effects of unilateral substantia nigra stimulation in conscious and in halothane-anesthetized animals. *J Comp Neurol* 213: 46-65, 1983.
56. **Savaki HE**, Desban M, Glowinski J, and Besson MJ. Local cerebral glucose consumption in the rat. I. Effects of halothane anesthesia. *J Comp Neurol* 213: 36-45, 1983.
57. McCulloch J, **Savaki HE**, and Sokoloff L. Distribution of effects of haloperidol on energy metabolism in the rat brain. *Brain Res* 243: 81-90, 1982.
58. McCulloch J, **Savaki HE**, McCulloch MC, Jehle J, and Sokoloff L. The distribution of alterations in energy metabolism in the rat brain produced by apomorphine. *Brain Res* 243: 67-80, 1982.
59. McCulloch J, **Savaki HE**, Jehle J, and Sokoloff L. Local cerebral glucose utilization in hypothermic and hyperthermic rats. *J Neurochem* 39: 255-258, 1982.
60. **Savaki HE**, Macpherson H, and McCulloch J. Alterations in local cerebral glucose utilization during hemorrhagic hypotension in the rat. *Circ Res* 50: 633-644, 1982.
61. **Savaki HE**, Kadekaro M, McCulloch J, and Sokoloff L. The central noradrenergic system in the rat: metabolic mapping with alpha-adrenergic blocking agents. *Brain Res* 234: 65-79, 1982.
62. **Savaki HE**, McCulloch J, Kadekaro M, and Sokoloff L. Influence of alpha-receptor blocking agents upon metabolic activity in nuclei involved in central control of blood pressure. *Brain Res* 233: 347-358, 1982.
63. **Savaki HE**, Davidsen L, Smith C, and Sokoloff L. Measurement of free glucose turnover in brain. *J Neurochem* 35: 495-502, 1980.
64. McCulloch J, **Savaki HE**, and Sokoloff L. Influence of dopaminergic systems on the lateral habenular nucleus of the rat. *Brain Res* 194: 117-124, 1980.

65. Kadekaro M, **Savaki H**, and Sokoloff L. Metabolic mapping of neural pathways involved in gastrosecretory response to insulin hypoglycaemia in the rat. *J Physiol* 300: 393-407, 1980.
66. McCulloch J, **Savaki HE**, McCulloch MC, and Sokoloff L. Retina-dependent activation by apomorphine of metabolic activity in the superficial layer of the superior colliculus. *Science* 207: 313-315, 1980.
67. Mata M, Fink DJ, Gainer H, Smith CB, Davidsen L, **Savaki H**, Schwartz WJ, and Sokoloff L. Activity-dependent energy metabolism in rat posterior pituitary primarily reflects sodium pump activity. *J Neurochem* 34: 213-215, 1980.
68. McCulloch J, **Savaki HE**, McCulloch MC, and Sokoloff L. Specific distribution of metabolic alterations in cerebral cortex following apomorphine administration. *Nature* 282: 303-305, 1979.
69. Schwartz WJ, Smith CB, Davidsen L, **Savaki H**, Sokoloff L, Mata M, Fink DJ, and Gainer H. Metabolic mapping of functional activity in the hypothalamo-neurohypophysial system of the rat. *Science* 205: 723-725, 1979.
70. Pappius HM, **Savaki HE**, Fieschi C, Rapoport SI, and Sokoloff L. Osmotic opening of the blood-brain barrier and local cerebral glucose utilization. *Ann Neurol* 5: 211-219, 1979.
71. Wechsler LR, **Savaki HE**, and Sokoloff L. Effects of d- and l-amphetamine on local cerebral glucose utilization in the conscious rat. *J Neurochem* 32: 15-22, 1979.
72. **Savaki HE**, Kadekaro M, Jehle J, and Sokoloff L. Alpha- and beta-adrenoreceptor blockers have opposite effects on energy metabolism of the central auditory system. *Nature* 276: 521-523, 1978.
73. **Savaki HE**, and Levis GM. Changes in rat brain gangliosides following active avoidance conditioning. *Pharmacol Biochem Behav* 7: 7-12, 1977.
74. **Savaki HE**, Cunha J, Carlini EA, and Kephalas TA. Pharmacological activity of three fractions obtained by smoking cannabis through a water pipe. *Bull Narc* 28: 49-56, 1976.

#### B. Books and book chapters

1. Savaki H.E.: "Our parallel Selves and the Mute Right Hemisphere", Crete University Press, Greece, 1989.
2. Savaki H.E.: The role of thalamic relays in the basal ganglia interhemispheric relations, as demonstrated by the autoradiographic <sup>14</sup>C-deoxyglucose method. "Brain Imaging : Techniques and Applications" Ellis Horwood Ltd. Chichester, U.K. 1989.
3. Savaki H.E.: Distribution of effects of catecholaminergic agents on local cerebral glucose consumption in the conscious rat. In "Catecholamines. Neuropharmacology and Central Nervous System", vol. 2, Alan R. Liss, New York, pp. 113 - 122, 1984.

4. McCulloch J., Savaki H.E. and Angerson W.: Regional water permeability in the CNS of conscious rat. Effects of hypercapnia and locus coeruleus lesions. In "Cerebral Blood Flow: Effects of Nerves and Neurotransmitters" (Eds.) D.D. Heistad and N.L. Marcus, Elsevier, pp. 509 - 516, 1982.
5. Savaki H.E.: Neural pathway involved in regulation of blood pressure in the rat: metabolic mapping with 2-[<sup>14</sup>C] deoxyglucose of central nervous effects of phenoxybenzamine. "Les Alpha Bloquants". MASSON, Paris, pp. 313 - 320, 1981.

### C. Abstracts

1. Kilintari M, Raos V, Savaki HE. 2013. Functional imaging of the temporal cortex during action execution and observation. Soc. Neurosci. Abstr., Program No. 458.14. 2013 Abstract Viewer/Itinerary Planner.
2. Raos V, Kilintari M, Savaki HE. 2012. Effects of biological motion in the cerebral cortex of the primate brain. Soc. Neurosci. Abstr., Program No. 467.03. 2012 Abstract Viewer/Itinerary Planner.
3. Raos V, Savaki HE. Frontal cortical areas of the monkey brain engaged in visual and somatosensory guidance of reaching-to-grasp. Soc. Neurosci. Abstr., Program No. 803.70. 2011 Abstract Viewer/Itinerary Planner.
4. Kilintari M, Raos V, Savaki HE. Mental imagery serving action cognition includes visual in addition to the motor and kinesthetic components. Soc. Neurosci. Abstr., Program No. 485.4. 2010 Abstract Viewer/Itinerary Planner.
5. Stamos A, Evangeliou M N, Savaki HE, Raos V. Involvement of the spinal cord in the inhibition of overt actions during action simulation. Soc. Neurosci. Abstr., Program No. 307.9. 2009 Abstract Viewer/Itinerary Planner.
6. Savaki HE. Symposium: Cortical Networks in Action. Society for Neuroscience Meeting, November 2008.
7. Raos V, Evangeliou MN, Savaki HE. Parietal cortical areas of the monkey brain engaged in visual and somatosensory guidance of reaching-to-grasp. Soc. Neurosci. Abstr., Program No. 262.2. 2008 Abstract Viewer/Itinerary Planner.
8. Savaki H. E., Bakola S., Gregoriou G. G. & Moschovakis A. K. The lateral intraparietal cortex represents visual and motor space in segregated, albeit partially overlapping, regions. Federation of European Neuroscience Societies Meeting, July 2006
9. Bakola S., G.G. Gregoriou, A.K. Moschovakis, H.E. Savaki. Functional imaging of the intraparietal cortex during saccades to visual and memorized targets. Soc. Neurosci. Abstr., Program No 287. 2005 Abstract Viewer/Itinerary Planner.
10. Raos V, Evangeliou MN, Savaki HE. 2005. Observation of action: grasping with the mind's hand. Soc. Neurosci. Abstr., Program No. 288.4. 2005 Abstract Viewer/Itinerary Planner.

11. Gregoriou G.G., Savaki H.E. : Functional imaging of the monkey intraparietal cortex during visual and somatosensory guidance of reaching. Soc. Neurosci. Abstr. Vol.27, 2001.
12. Moschovakis A.K., Gregoriou G.G., Savaki H.E.: Functional mapping of the superior colliculus in the rhesus monkey during saccades to visual targets. Soc. Neurosci. Abstr. Vol.27, 2001.
13. Gregoriou G.G., Moschovakis A.K., Savaki H.E.: Involvement of the parieto-frontal cortical network in the sensory guidance of arm and eye movements. Soc. Neurosci. Abstr. Vol.25, p. 382, 1999.
14. Gregoriou G.G., Moschovakis A.K., Savaki H.E.: Metabolic activity patterns in the intraparietal and arcuate sulcus of the monkey brain during the performance of saccades and arm movements. 19th European Winter Conference on Brain Research, Plagne Lauze, France, 6-13 March 1999.
15. Savaki H.E.: Cortical pathways involved in visually guided eye-and arm- movements in the monkey. 1st International Conference on Functional Brain Imaging, Athens, 11-15 September 1998 (invited speaker).
16. Dalezios Y., Gregoriou G.G., Savaki H.E.: Spectral analysis of the metabolic activity pattern in the monkey visual cortex. Eur. J. Neurosci Vol. 10, Suppl. 10, p. 238, 1998.
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